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## EUROPEAN PATENT APPLICATION

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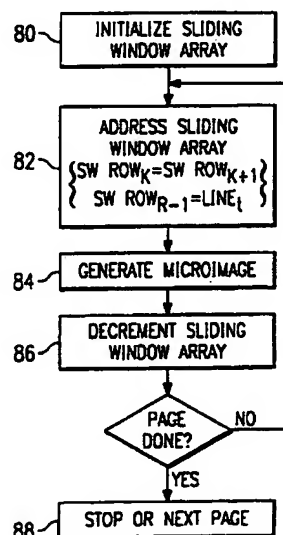
Remarks:

Divisional application 97113835.9 filed on 11/08/97.

### (54) Improvements relating to grayscale printing with spatial light modulator

(57) A method for printing grayscale images. A sliding window memory stores an array of exposure data. The memory is initialized (80) with zero values. The memory is then addressed (82) so that the last row of the array is filled with exposure data. A microimage is then generated based on the exposure data (84). The data in the array is then decremented (86). If the page to be printed is not completed, the array's addresses are rotated (82) so that the data for the first row drops out, the data for other rows is readdressed as the next row, and new data fills the last row.

FIG. 8



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# EUROPEAN SEARCH REPORT

Application Number  
EP 96 11 0057

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	EP 0 585 028 A (CANON KK) * abstract; figures 2,12 * * column 9, line 3 - line 30 * ---	1	H04N1/40
A	EP 0 517 544 A (CANON KK) * abstract; figures * * page 10, line 2 - line 58 * ---	1	
A	US 4 525 729 A (AGULNEK ET AL) * abstract; figures * -----	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04N
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30 May 1997	Examiner ISA S.
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone  Y : particularly relevant if combined with another document of the same category  A : technological background  O : non-written disclosure  P : intermediate document</p> <p>T : theory or principle underlying the invention  E : earlier patent document, but published on, or after the filing date  D : document cited in the application  L : document cited for other reasons  .....  &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 02.92 (P04C01)



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### CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and those claims for which fees have been  
namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

### LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of the unity of the invention and relates to several inventions or groups of inventions, namely:

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims
- ☐ Only part of the further claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respects of which search fees have been paid,  
namely claims:
- ☒ None of the further claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,  
namely claims:



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EP 96 11 0057 - B -

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions, or groups of inventions, namely:

- |    |              |   |  |
|----|--------------|---|--|
| 1. | Claims 1-11  | : | Method of printing a greyscale image.  |
| 2. | Claims 12-14 | : | Method of compensating for defective elements of a pixel array imaging device where elements are "stuck on". |
| 3. | Claim 15     | : | Method of compensating for the non-uniform illumination by elements of a spatial light modulator.            |